

XP-002281227

AN - 1988-318075 [05]

AP - JP19870067879 19870324; JP19870067879 19870324; [Based on J63233788]

CPY - TAKI

DC - D16

FS - CPI

IC - C07K17/10 ; C12N9/50

MC - D05-A02C D05-C03C D05-H12

PA - (TAKI) TAKARA SHUZO CO LTD

PN - JP63233788 A 19880929 DW198845 009pp

- JP7121222B B2 19951225 DW199605 C12N9/50 008pp

PR - JP19870067879 19870324

XA - C1988-140358

XIC - C07K-017/10 ; C12N-009/50

AB - J63233788 The composition contains chemically modified serine protease which has affinity ligand activity but does not have catalyst activity.

- Usable serine proteases are trypsin, pronase, thrombin, urokinase, enterokinase, plasmin, kallikrein, chymotrypsin, lysyl endopeptidase, carboxypeptidase Y, subtilisin, etc. Serine residue important for catalytic activity is first modified by PMSF (phenylmethanesulphonylfluoride) and alkali treatment. Next, histidine residue also important for catalytic activity is modified by TLCK or TPCK, which does not effect on the Ser residue. After the modification, an affinity ligand whose affinity differs between modified and non-modified catalytic His is used to purify chemically modified serine protease. The prepd. serine protease lower than 0.01% of its natural activity.

- **USE/ADVANTAGE** - Serine protease (e.g. trypsin) has in general three important residues for its catalyst activity, i.e. Ser, His and Asp. Chemical modification can remove its catalyst activity but retains its affinity. This compsn. has chemical modification and the compsn. can be used in purifying protease prods. in biochemistry, gene engineering, protein engineering, etc.(0/4)

IW - COMPOSITION PURIFICATION PROTEASE PRODUCT CONTAIN CHEMICAL MODIFIED SERINE PROTEASE AFFINITY LIGAND ACTIVE NO CATALYST ACTIVE

IKW - COMPOSITION PURIFICATION PROTEASE PRODUCT CONTAIN CHEMICAL MODIFIED SERINE PROTEASE AFFINITY LIGAND ACTIVE NO CATALYST ACTIVE

NC - 001

OPD - 1987-03-24

ORD - 1988-09-29

PAW - (TAKI) TAKARA SHUZO CO LTD

TI - Compsn. used for purifying protease prods. - contg. chemically modified serine protease with affinity ligand activity but no catalyst activity